Ngā Whāinga Paetae: **Te Tau, Taumata 2**

Mahere Tau	0	1	2	3	4	5	6	7	8

2.1 (Mātauranga Tau)

Ka mōhio ki ngā tauoti 0–1,000: te whakaingoa i ngā tohutau; ngā raupapa tatauranga whakamua, whakamuri hoki; ngā tikanga uara tū; te maha o ngā tahi, ngā tekau me ngā rau kei roto i tētahi tau; te rahi me te hanga o tētahi tau; ngā tikanga o te taurua me te taukehe.

2.2 (Mātauranga Tau)

Ka mōhio ki ngā rearua tae atu ki te 20 me ngā haurua e whai pānga ana.

2.4 (Rautaki Tau)

Ka whakaoti rapanga e whai wāhi mai ana te tauoti me te hautau, ka whakamārama hoki i te rautaki: rautaki tatau; rautaki whakarōpū; rautaki tohatoha ōrite; rautaki wāwāhi tau tāpiripiri māmā.

2.5 (Rautaki Tau)

Ka mārama ki te whaitakenga o te otinga o tētahi rapanga.

Ngā Whāinga Paetae: **Te Tau, Taumata 3**

3.1 (Mātauranga Tau)

Ka mōhio ki ngā tauoti 0–1,000,000: te whakaingoa i ngā tohutau; ngā momo raupapa tatauranga tauoti; ngā meka matua mō te tāpiri, te tango me te whakarea; te whakaawhiwhi tauoti, tau ā-ira hoki ki te 1, te 10, te 100 rānei e pātata ana; ngā tikanga uara tū o ngā tauoti me ngā tau ā-ira (kia 3 ngā mati ā-ira); te maha o ngā haurau, ngā hautekau, ngā tahi, ngā tekau, ngā rau me ngā mano kei roto i tētahi tau; te rahi me te hanga o tētahi tau.

3.3 (Rautaki Tau)

Ka kōwhiri, ka whakamārama i te rautaki e tino whaihua ana hei whakaoti rapanga e whai wāhi mai ana te tauoti, te hautau, te tau ā-ira me te ōrau: rautaki tatau; rautaki whakarōpū; rautaki tohatoha ōrite; rautaki tāpiripiri; rautaki whakarea māmā.

3.4 (Rautaki Tau)

Ka mārama ki te whaitakenga o te otinga o tētahi rapanga.

Te Mātauranga	Ngā Rauemi e Hāngai ana
Ka tautuhia ngā tau katoa, 0–1,000,000.	*TPT, Pukapuka 4*: • Kāri Pere (wh.11) • Kōwhiuwhiu Tau (wh.36) • He Whare Uara Tū (wh.38)
Ka raupapahia ngā tauoti, 0–1,000,000.	*TPT, Pukapuka 4*: • Raupapahia ngā Kāri (wh.10) • Kāri Pere (wh.11) • Raupapahia (wh.17) • Whakaaturia ki te Rārangi Tau (wh.18) • He Aha te Tau? (wh.19) • Te Paparau me te Pukamano (wh.21) • He Aho Pirepire (wh.23) • Te Tau Nui Rawa Atu (wh.25) *He Tau Anō Te Tau: Te Tau, Pukapuka Tuarua, Taumata 3*: • Kia Tika te Raupapa (wh.4)

Ka pānui, ka raupapa tau ā-ira e whai wāhi mai ana he hautekau; ka tatau mawhiti-hautekau whakamua, whakamuri hoki.	*TPT, Pukapuka 4:* • Raupapahia ngā Kāri (wh.10) • Kāri Pere (wh.11) • Raupapahia (wh.17) • Whakaaturia ki te Rārangi Tau (wh.18) • He Aha te Tau? (wh.19) *Ngā Rauemi o te BSM:* 10-3-86, 11-3-3, 11-3-42
Ka mōhio ki ngā rōpū o roto i te mano, pērā i te 240 me te 760.	*TPT, Pukapuka 4:* • Whiriwhiria te Tau (wh.86) • Huria te Tau (wh.87) *He Tau Anō Te Tau: Te Tau, Pukapuka Tuatoru, Taumata 3:* • Ngā Tau Tapeke Pai (wh.1)
Ka mōhio ki te maha o ngā rōpū o te 10 me te 100 kei roto i tētahi tau matiwhā.	*TPT, Pukapuka 4:* • E Pātata ana ki te 100 (wh.82) • Whakawhitia ngā Paparanga Uara Tū (wh.88) *He Tau Anō Te Tau: Te Tau, Pukapuka Tuatoru, Taumata 3:* • Te Whare Pūtea (wh.3) *He Tau Anō Te Tau: Te Tau, Taumata 3-4:* • Te Pēke Mimiti Kore (wh.1)
Ka tuhia he pikitia, he whārite hoki hei whakaatu i ngā whiriwhiringa tāpiritanga, tangohanga hoki.	*TPT, Pukapuka 4:* • Aho Pirepire (wh.110)
Ka whakaawhiwhia ngā tauoti ki te tekau, ki te rau, ki te mano rānei e pātata ana.	*TPT, Pukapuka 4:* • Whakaawhiwhia ki te Tekau (wh.94) *He Tau Anō Te Tau: Ngā Meka Matua, Taumata 3:* • Te Tauomaoma Hōiho (wh.23)
Ka whakamahia te tuhinga ōkawa hei whakaoti tāpiritanga, tangohanga hoki.	*TPT, Pukapuka 4:* • E Pātata ana ki te 100 (wh.82) *He Tau Anō Te Tau: Ngā Tau, Taumata 2-3:* • Ki Wīwī ki Wāwā (wh.10) *He Tau Anō Te Tau: Te Tau, Taumata 3-4:* • Hei Aha te Tātaitai! (wh.13)

Ngā Rautaki	**Te Panuku o ngā Rapanga**	**Ngā Rauemi e Hāngai ana**
Ka whakamahia te rautaki 'hoki whakamuri ki te tau māmā' hei whakaoti rapanga tango: • ko te whiriwhiri i te otinga, pērā i te 65 – 8 = □; • ko te whiriwhiri i te tau tango, pērā i te 65 – □ = 57;	24 – 4 = □, nō reira, 24 – 6 = □ 48 – 8 = □, nō reira, 48 – 9 = □ 65 - 5 = □, nō reira, 65 – 8 = □ 86 – 6 = □, nō reira, 86 – 9 = □ 94 – 4 = □, nō reira, 94 – 8 = □	*TPT, Pukapuka 5:* • Wāwāhia, Tangohia (wh.100) *He Tau Anō Te Tau: Ngā Meka Matua, Taumata 3:* • He Iwa, he Waru (wh.4) • Me Tāpiri, me Tango Rānei (wh.5)

• ko te whiriwhiri i te tau tīmatanga, pērā i te □ − 8 = 57.	136 − 6 = □, nō reira, 136 − 8 = □ 503 − 3 = □, nō reira, 503 − 8 = □	*He Tau Anō Te Tau: Ngā Meka Matua, Taumata 3-4:* • E Hoki ki te 10 (wh.14)
Ka whakaoti rapanga tango mā te tango i ngā mati uara tū.	35 − 20 = □ 78 − 50 = □ 183 − 40 = □ 236 − 50 = □ 507 − 60 = □ 913 − 130 = □ 425 − 101 = □ 873 − 502 = □ 946 − 35 = □	
Ka whakamahia te rautaki 'wāwāhia ngā uara tū' hei whakaoti rapanga tango. Hei tauira: 73 − 46 = 73 − 40 − 6 = 33 − 6 = 27	42 − 26 = □ 82 − 45 = □ 71 − 39 = □ 123 − 57 = □ 124 − 68 = □ 272 − 93 = □ 486 − 157= □ 916 − 408 = □	*He Tau Anō Te Tau: Te Tau, Pukapuka Tuatahi, Taumata 2:* • Te Tawhiti o te Mawhiti (wh.8) • Te Tiaki Manu (wh.11) • Kimihia te Tau (wh.16) *He Tau Anō Te Tau: Te Tau, Pukapuka Tuatoru, Taumata 3:* • He Puke Pāhekeheke (wh.8)
Ka whakamahia te rautaki 'te tau māmā me te tikanga paremata' hei whakaoti rapanga tāpiri.	35 + 19 = □ → 34 + 20 = □ 48 + 49 = □ → 50 + 50 - 3 = □ 65 + 97 = □ → 62 + 100 = □ 298 + 397= □ → 300 + 400 − 5 = □ 78 + 387 = □ → 65 + 400 = □ 456 + 375 = □ → 431 + 400 = □	*TPT, Pukapuka 5:* • Peke atu ki te Tau Māmā (wh.114) • Peke atu ki Tua, ka Heke Whakararo ai (wh.120)
Ka whakaoti rapanga tāpiri, rapanga tango hoki, mā te whakamahi taurata.	43 + 37 = □ 38 + 62 =□ 125 + 75 = □ 45 + 255 = □ 37 + 46 + 13 + 4 =□ 158 + 342 = □ 25 + 81 + 34 + 19 + 75 + 66 = □ 260 + 150 + 340 = □ 333 + 444 + 555 + 666 = □	*TPT, Pukapuka 5:* • E Pātata ana tētahi Tau Tāpiri ki te 100 (wh.127) • Tangohia he Tau Māmā (wh.129) • Tāpiritanga Ōrite (wh.131) *He Tau Anō Te Tau: Te Tau, Pukapuka Tuarua, Taumata 3:* • Te Whaiwhai Toroa (wh.1)

Ka whakamahia te rautaki 'huri kōaro', hei whakaoti rapanga tango. Hei tauira: $72 - 45 = \square \rightarrow 45 + \square = 72$	$43 - 39 = \square \rightarrow 39 + \square = 43$ $83 - 76 = \square \rightarrow 76 + \square = 83$ $91 - 68 = \square \rightarrow 68 + \square = 91$ $203 - 187 = \square \rightarrow 187 + \square = 203$ $783 - 395 = \square \rightarrow 395 + \square = 783$	*TPT, Pukapuka 5:* • Paheko Kōaro (wh.117) • Ngā Rapanga pēnei i te $67 - \square = 34$ (wh.141) *He Tau Anō Te Tau: Ngā Meka Matua, Taumata 3:* • Whāia te Mahere Huānga (wh.8)
Ka whakamahia te tikanga o te whakawhiti uara tū hei whakaoti rapanga tāpiri, rapanga tango hoki, me te tirotiro anō ki te tuhinga ōkawa.	$46 + 38$ $93 - 57$ $537 + 429$ $714 - 267$	*TPT, Pukapuka 5:* • Te Tuhinga Ōkawa hei Whakaoti Tāpiritanga (wh.146) • Te Tuhinga Ōkawa hei Whakaoti Tangohanga (wh.149)
Ka āta kōwhiria te rautaki ā-hinengaro e tino whaihua ana hei whakaoti rapanga tāpiri, rapanga tango hoki.	$65 + 79 = \square$ $94 - 78 = \square$ $345 + 656 = \square$ $84 - 56 = \square$ $603 - 287 = \square$ $286 + \square = 942$ $\square - 429 = 831$	*TPT, Pukapuka 5:* • Hei Whakapakari i ngā Rautaki ā-Hinengaro (wh.153)